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MECHANICS.

167. Proposed by EDWIN S. CRAWLEY, Ph. D., Head Professor of Mathematics in the University of Pennsylvania.

An anchor ring or torus is produced by the revolution of a circle of radius r, the center of the revolving circle describing a circle of radius R. A quadrant of the torus is cut by two planes through the center of the ring perpendicular to each other and perpendicular to the plane of revolution. Determine the limiting value of the ratio $R:r$, so that when the quadrant thus formed is placed with one of its ends in coincidence with a horizontal plane it will rest in that position.

AVERAGE AND PROBABILITY.

153. Proposed by J. E. SANDERS, Hackney, Ohio.

Three circles, radii $c=1/6a$, are at random within the circumference of a given circle, radius a. Find the chance that (1) all three intersect, (2) two only intersect, (3) none intersect.

NOTES.

Professor Glover of the University of Michigan is giving a two-hour course on Annuities and Insurance.

Associations of Mathematics Teachers have been organized in the States of Kansas and Washington. The former has adopted *School Mathematics* as its official organ.

A Congress of Mathematicians will be held at Heidelberg, Germany, in July to celebrate the hundredth anniversary of Jacobi's birthday. An International Congress of Mathematicians is to be held at St. Louis during the week beginning September 19, 1904.

The current number of the *Transactions of the American Mathematical Society* (January, 1904) contains the following articles: The subgroups of order a power of 2 of the simple quinary orthogonal group in the Galois field of order $p^n=8l\pm3$, by L. E. Dickson; On certain invariants of two triangles, by J. G. Hun; Isothermal systems of geodesics, by E. Kasner; Zur Gruppentheorie mit Anwendungen auf die Theorie der linearen homogenen Differentialgleichungen, by Alfred Loewy; On the group of the sign $(0, 3; 2, 4, \infty)$ and the functions belonging to it, by J. W. Young; On the definition of reducible hypercomplex number systems, by Saul Epsteen; A simple proof of a theorem in the calculus of variations, by E. Goursat.

On February 22nd, at Columbus, Ohio, met a conference in which a very large number of the educational institutions of the State were represented, to form a State organization in the interests of pure science. Dr. George Bruce Halsted, now of Kenyon College, was called upon to preside, and the name chosen was the "Association of Ohio Teachers of Mathematics." The meeting for finally perfecting the organization and adopting the constitution will be held at the end of March or near the beginning of April. At this meeting there will also be a highly important program of papers and discussions. F.